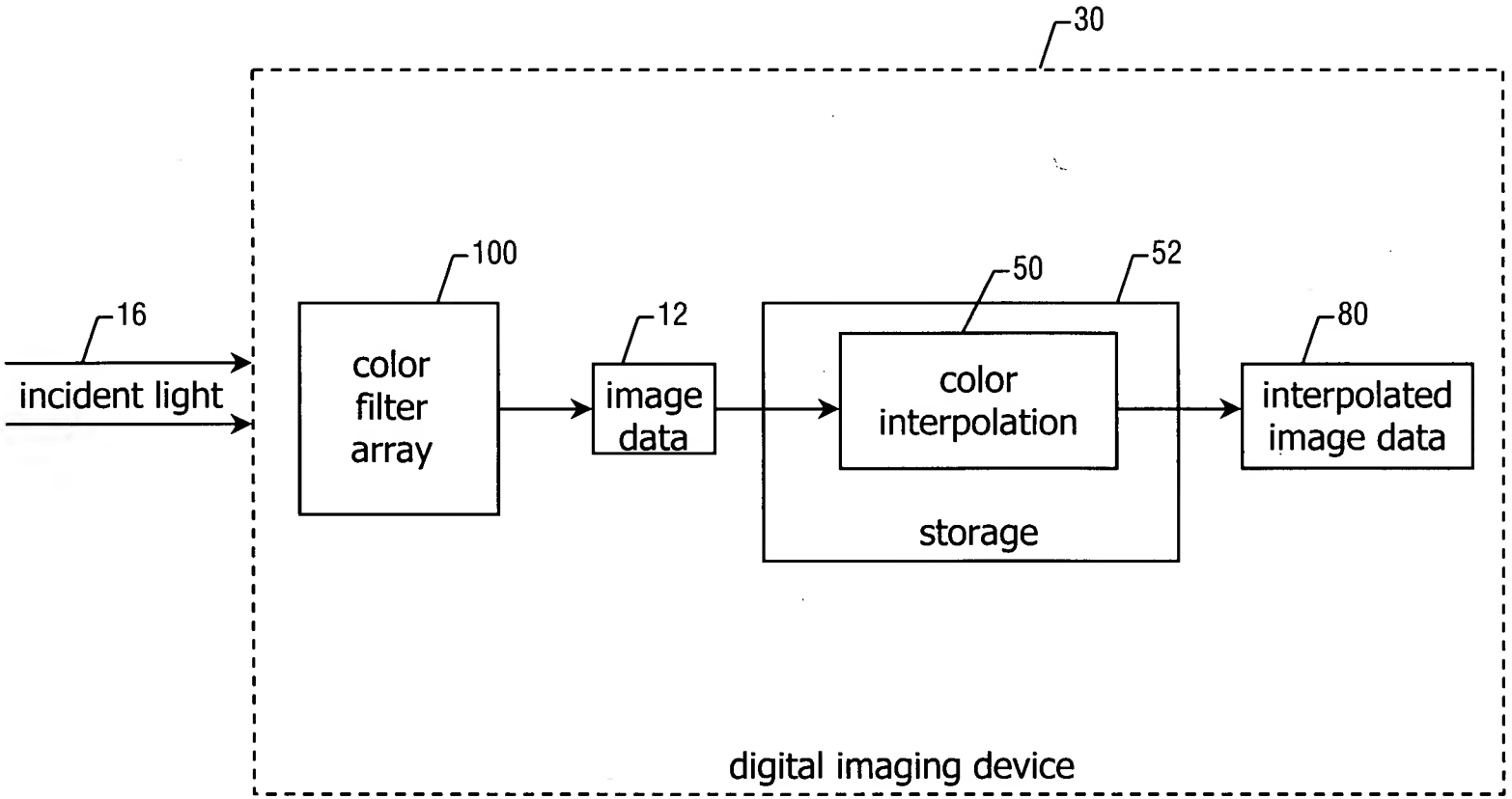


Figure 1

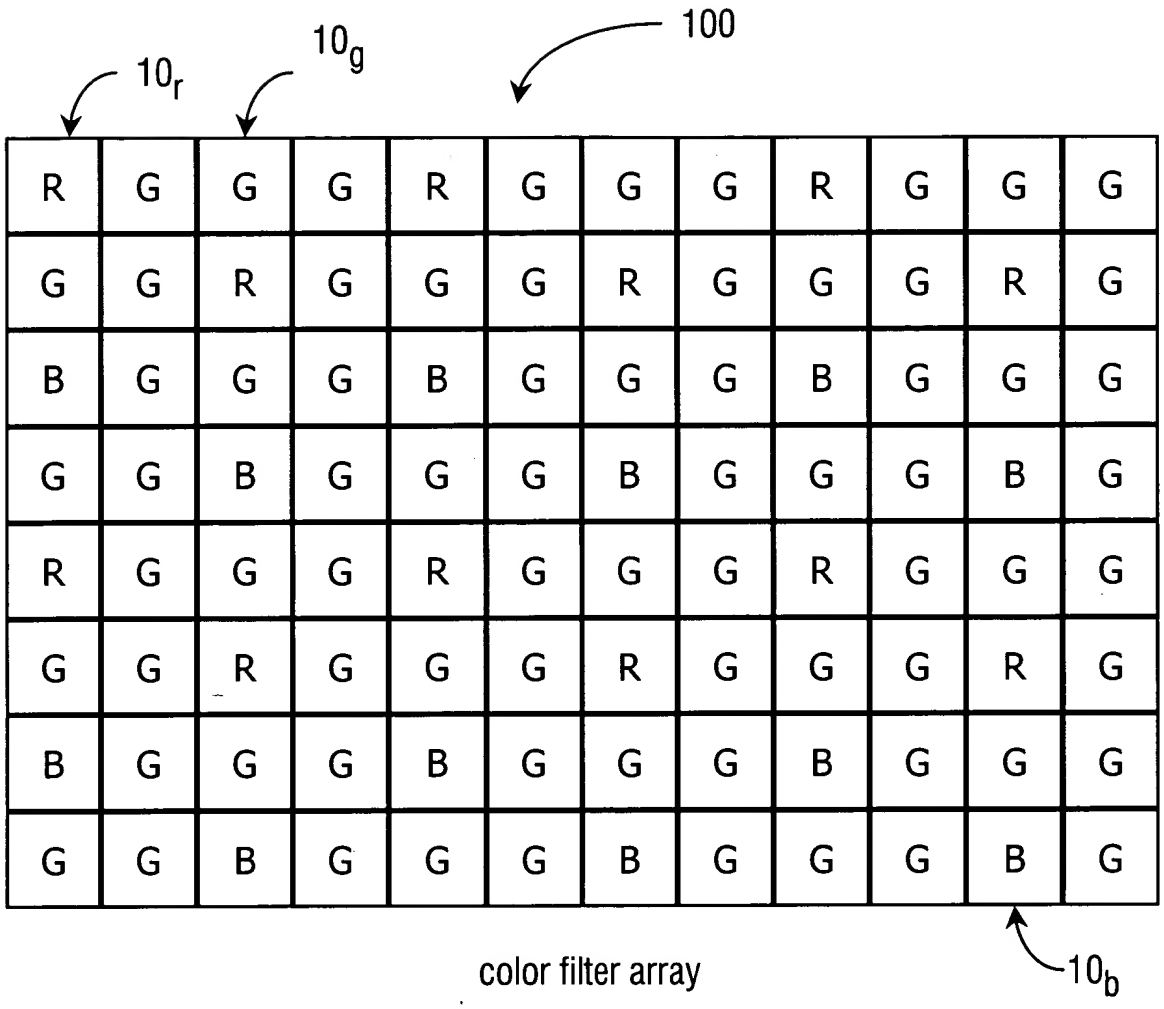

100
10_g
10_r
R G G G R G G G R G G G
G G R G G G R G G G R G
B G G G B G G G B G G G
G G B G G G B G G G B G
R G G G R G G G R G G G
G G R G G G R G G G R G
B G G G B G G G B G G G
G G B G G G B G G G B G
color filter array
10_b

Figure 2

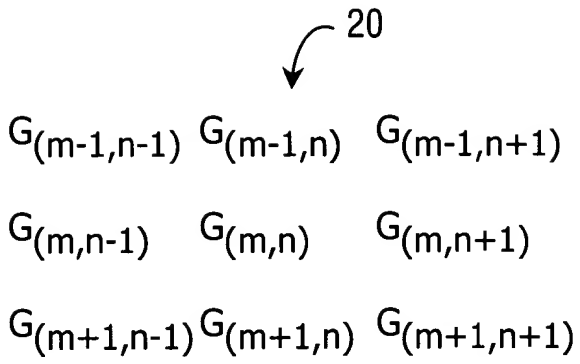


Figure 3A

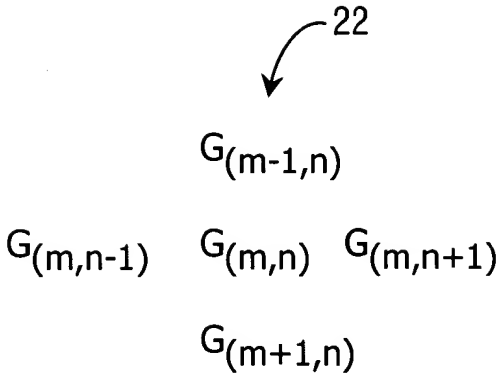


Figure 3B

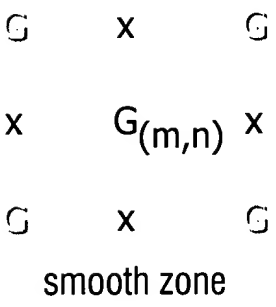


Figure 3C

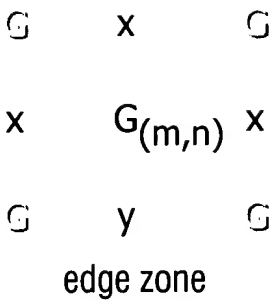


Figure 3D

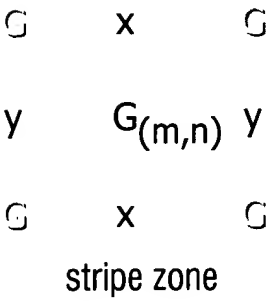


Figure 3E

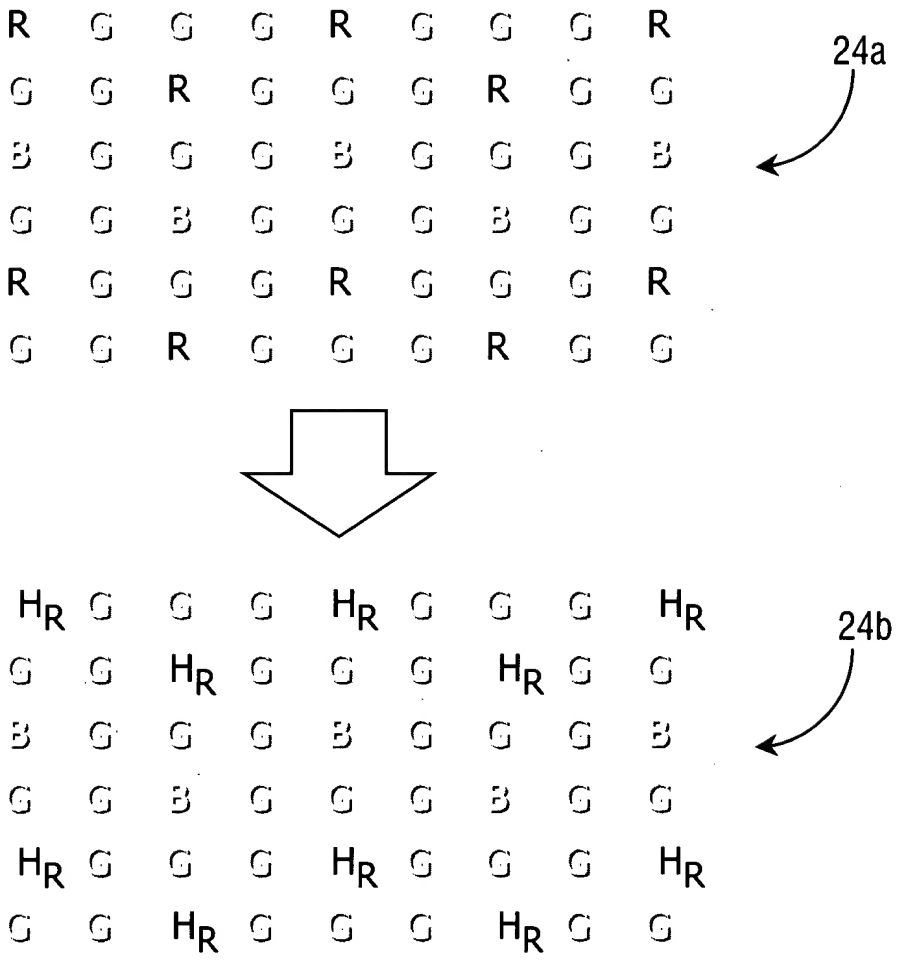

R G G G R G G G R
G G R G G G R G G
B G G G B G G G B
G G B G G G B G G
R G G G R G G G R
G G R G G G R G G
24a
H_R G G G H_R G G G H_R
G G H_R G G G H_R G G
B G G G B G G G B
G G B G G G B G G
H_R G G G H_R G G G H_R
G G H_R G G G H_R G G
24b

Figure 4

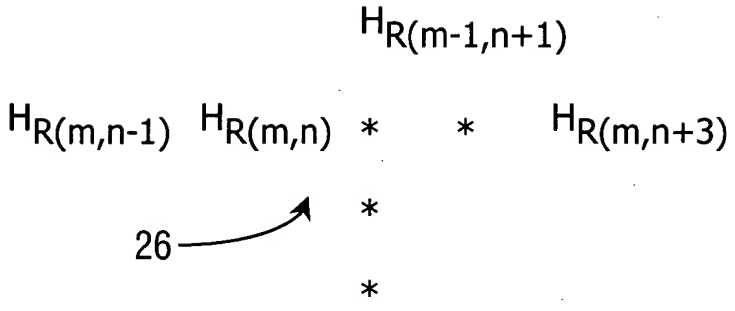


Figure 5A

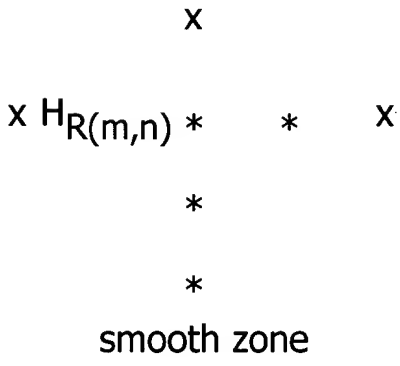


Figure 5B

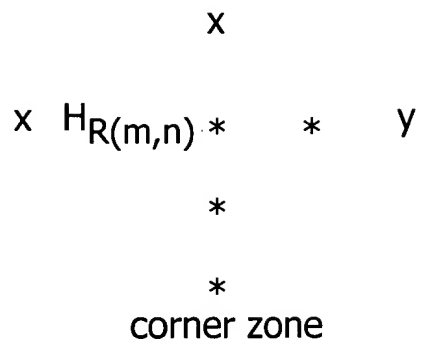


Figure 5C

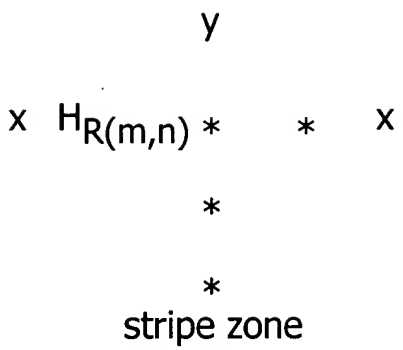


Figure 5D

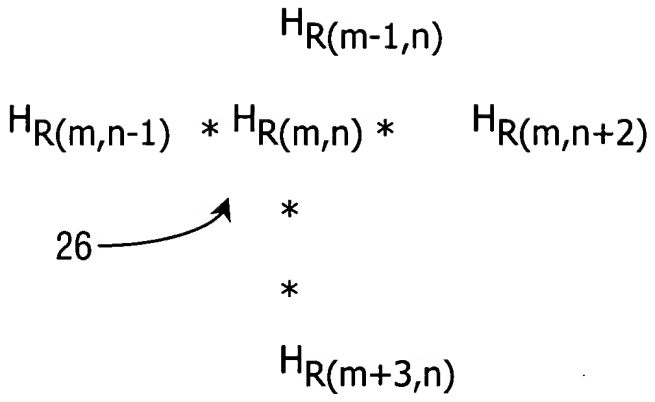


Figure 6A

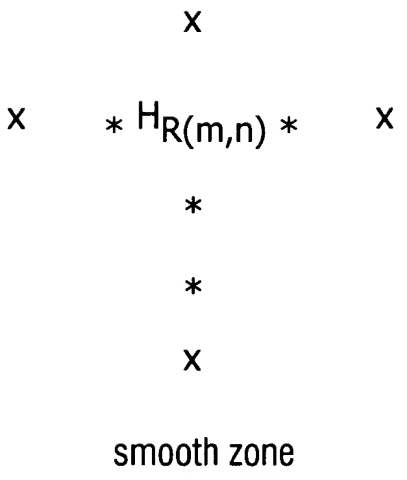


Figure 6B

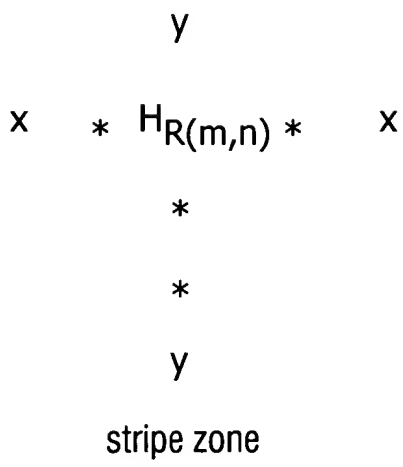


Figure 6C

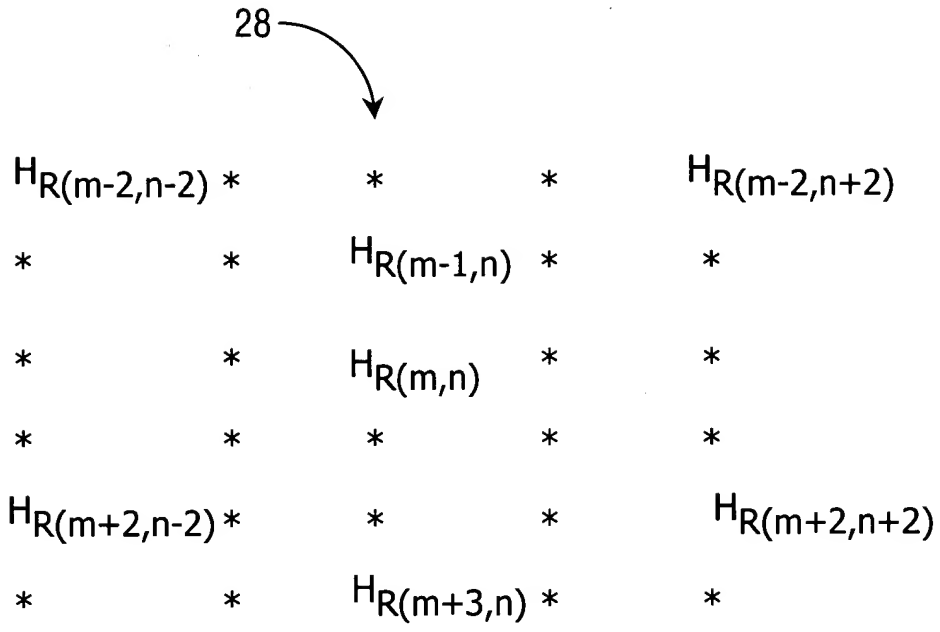
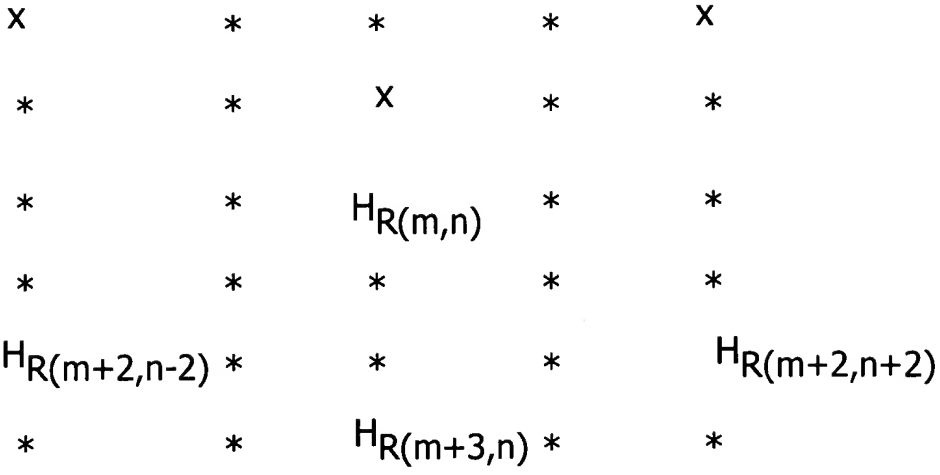


Figure 7A



smooth zone

Figure 7B

$H_{R(m-2,n-2)}$	*	*	*	$H_{R(m-2,n+2)}$
*	*	x	*	*
*	*	$H_{R(m,n)}$	*	*
*	*	*	*	*
$H_{R(m+2,n-2)}$	*	*	*	$H_{R(m+2,n+2)}$
*	*	x	*	*

vertical stripe

Figure 7C

x	*	*	*	y
*	*	$H_{R(m-1,n)}$	*	*
*	*	$H_{R(m,n)}$	*	*
*	*	*	*	*
y	*	*	*	x
*	*	$H_{R(m+3,n)}$	*	*

diagonal zone

Figure 7D

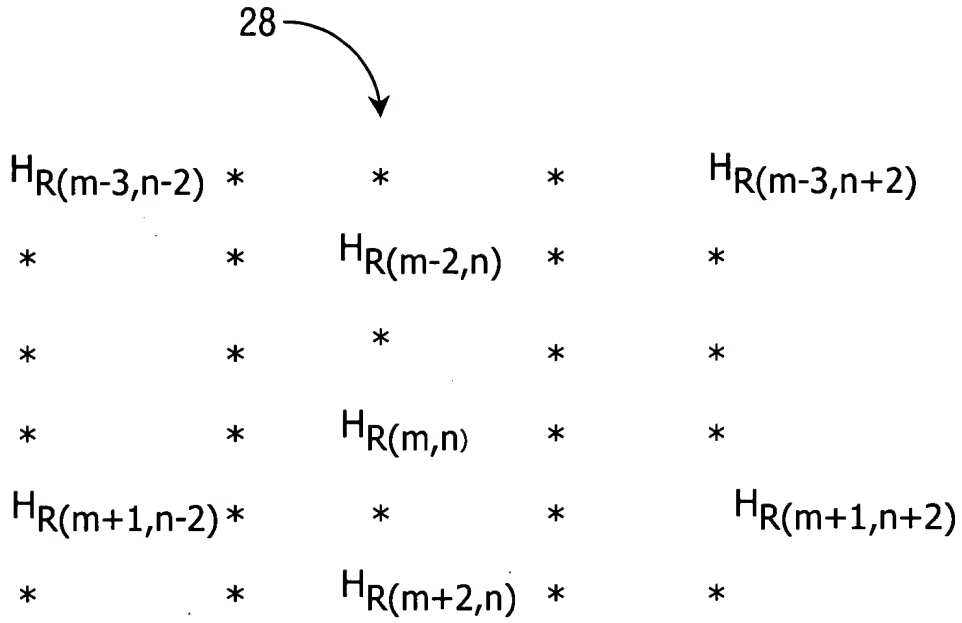
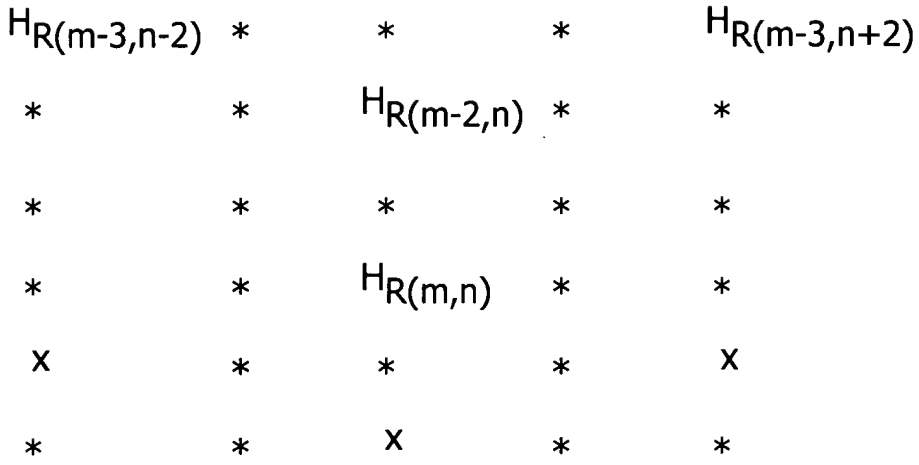


Figure 8A



smooth zone

Figure 8B

$H_{R(m-3,n-2)}$	*	*	*	$H_{R(m-3,n+2)}$
*	*	y	*	*
*	*	*	*	*
*	*	$H_{R(m,n)}$	*	*
$H_{R(m+1,n-2)}$	*	*	*	$H_{R(m+1,n+2)}$
*	*	y	*	*

vertical zone

Figure 8C

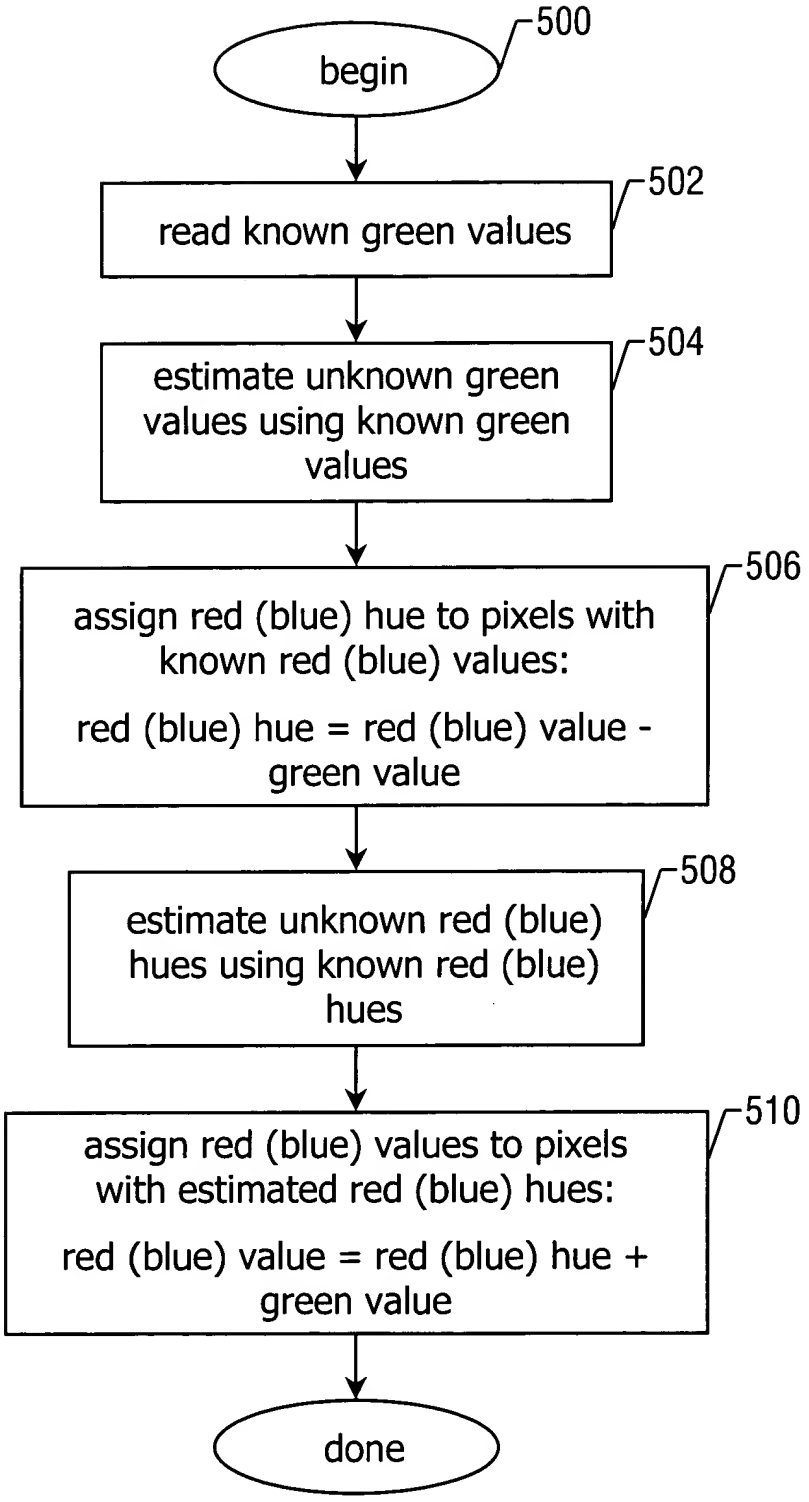

500
begin
502
read known green values
504
estimate unknown green values using known green values
506
assign red (blue) hue to pixels with known red (blue) values:
red (blue) hue = red (blue) value - green value
508
estimate unknown red (blue) hues using known red (blue) hues
510
assign red (blue) values to pixels with estimated red (blue) hues:
red (blue) value = red (blue) hue + green value
done

Figure 9